

Prapapan Ketsarapong 2006: Factors Affecting Educational Quality of Undergraduate Student of Industrial Engineering Department, Faculty of Engineering at Kasetsart University, Bang Khen Campus. Master of Engineering (Industrial Engineering), Major Field: Industrial Engineering, Department of Industrial Engineering. Thesis Advisor: Assistant Professor Anont Wonggasem, M.S. in IE, 170 pages.  
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In this research three groups of factors affecting educational quality in term of grade point average (GPA) and time to graduation were studied and analyzed. These factors are student attribute, family profile and educational record. Multiple regression analysis, Testing for Independence of two Categorical, correlation of fundamental and the core subjects in Industrial Engineering program were employed. The population size of 348 undergraduate industrial engineering students, Faculty of Engineering, Kasetsart University at Bang Khen Campus who were graduated from 2001 to 2004.

The research results indicate that the factors affecting the GPA are the student age, average high school score, the type of grant and the grade of fundamental subjects such as English, Applied Probability and Statistics for Engineering , Engineering Mathematics II, Engineering Mathematics III, by 61.8% regression efficiency. Factors affecting time to graduation are the program in which students belong, grade point of fundamental subjects such as sex, Applied Probability and Statistics for Engineering , Engineering Mathematics I, Engineering Mathematics II, Engineering Mathematics III, and Engineering Mathematics IV. Correlation between the grade point of Applied Probability and Statistics for Engineering , a fundamental subject, and the nine core Industrial Engineering subjects which are Manufacturing Processes I, Operations Research for Engineers I, Quality Control, Industrial Study, Engineering Economy, Industrial Management, Production Planning and Control, Industrial Plant Design, and Industrial Safety are recognized at 0.05 significant.

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